

# Technical Data Sheet (TDS) - Gilsonite

### 1. Product Identification:

• **Product Name:** Gilsonite

• Chemical Name: Natural Bitumen, Asphaltite

• CAS Number: 12002-43-6

• **Appearance:** Black, brittle solid

• Odor: Slight petroleum odor

### 2. Physical Properties:

Softening Point: 150 - 220°C

• **Specific Gravity:** 1.05 - 1.10

• Moisture Content: Max 1%

• Ash Content: Max 5%

• Volatile Matter: 55 - 75%

• Solubility in Toluene: Min 99%

• Penetration (25°C): <1 dmm

### 3. Chemical Composition:

• Carbon (C): 75 - 85%

• Hydrogen (H): 8 - 10%

• **Sulfur (S):** 0.3 - 4%

• Nitrogen (N): 0.5 - 3%

• Oxygen (O): 0.5 - 4%

### 4. Performance Characteristics:

- High adhesion properties
- Excellent water resistance
- Good thermal stability
- High asphaltene and resin content



## 5. Applications:

- **Drilling Fluids:** Used as a fluid loss control agent in oil and gas drilling.
- Asphalt and Road Construction: Enhances asphalt performance and durability.
- Inks and Paints: Acts as a carbon black replacement and binder.
- Foundry Industry: Used in mold and core manufacturing.
- Waterproofing and Sealants: Applied in roofing and waterproofing materials.

## 6. Packaging & Storage:

- Packaging: 25 kg bags, 50 kg bags, or bulk in jumbo bags.
- Storage Conditions: Store in a dry, cool, and well-ventilated area.
- Shelf Life: 12 months if stored properly.

### 7. Compliance & Certifications:

- Meets industry standards for bitumen applications.
- Compliant with API and ASTM specifications.

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